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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/300,137      | 04/27/1999  | KENNETH B. LAZARUS   | ACX-103CN2CP        | 4135             |

7590 12/24/2002

John R. Ross, Cymer, Inc.  
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16750 Via Del Campo Court  
San Diego, CA 92127

EXAMINER

BUDD, MARK OSBORNE

| ART UNIT | PAPER NUMBER |
|----------|--------------|
| 2834     |              |

DATE MAILED: 12/24/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

|                 |         |                |               |
|-----------------|---------|----------------|---------------|
| Application No. | 300 137 | Applicant(s)   | Lazarus et al |
| Examiner        | M. Budd | Group Art Unit | 2834          |

— The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address —

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

Responsive to communication(s) filed on 11-12-02

This action is **FINAL**.

Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 1 1; 453 O.G. 213.

### Disposition of Claims

Claim(s) 55 is/are pending in the application.

Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

Claim(s) \_\_\_\_\_ is/are allowed.

Claim(s) 55 is/are rejected.

Claim(s) \_\_\_\_\_ is/are objected to.

Claim(s) \_\_\_\_\_ are subject to restriction or election requirement.

### Application Papers

The proposed drawing correction, filed on \_\_\_\_\_ is  approved  disapproved.

The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

The specification is objected to by the Examiner.

The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. § 119 (a)-(d)

Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119 (a)-(d).

All  Some\*  None of the:

Certified copies of the priority documents have been received.

Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.

Copies of the certified copies of the priority documents have been received  
in this national stage application from the International Bureau (PCT Rule 17.2(a))

\*Certified copies not received: \_\_\_\_\_

### Attachment(s)

Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_  Interview Summary, PTO-413

Notice of Reference(s) Cited, PTO-892  Notice of Informal Patent Application, PTO-152

Notice of Draftsperson's Patent Drawing Review, PTO-948  Other \_\_\_\_\_

## Office Action Summary

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 55 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hathaway, Chida or Itsumi in view of Lazarus (882).

Hathaway (Figs. 23-25), Itsumi (figs. 2 & 3) and Chida (fig. 10) teach the sigmoidal actuator except the electrodes are applied to the piezo elements rather than on electrode sheet polymer bonded to the piezo elements. However, Lazarus (figs. 2, 4 & 6) teaches a piezo actuator using electrode sheets bonded to the piezo elements as a protective covering for the actuator. To use the specific sigmoidal bonding mode transducer of Hathaway, Chida or Itsumi in place of the conventional bending mode transducer of Lazarus would be the mere substitution of known actuators and would have been obvious to one of ordinary skill in the art. Likewise, to put Hathaway, Chida or Itsumi to work in the known system of Lazarus would have been within the skilled expected of the routineer and therefore obvious to one of ordinary skill in the art. The known, expected differences in the operation of specific actuators would be the guide used by the designer when selecting which would be best in a particular, specific situation.

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It is noted that the "wherein said structural polymer -- sufficient to prevent --- sheet forces are efficiently coupled ---" clause is merely a statement of intended function and provides no additional structure to the combination claimed.

budd/ds

12/20/02

  
MARK J. BUDD  
PRIMARY EXAMINER  
ART UNIT 212